



Docket No.: 7853-178-999  
Serial No.: 09/503,387  
Inventor(s): BUSFIELD ET AL.  
Title: "GLYCOPROTEIN VI AND USES THEREOF"

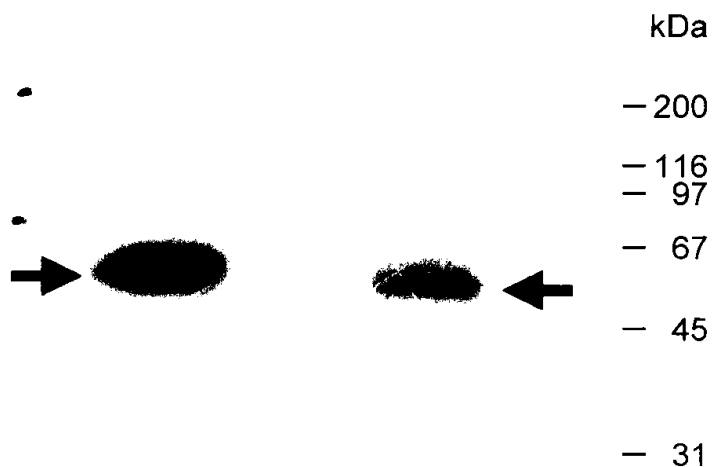


FIG.12

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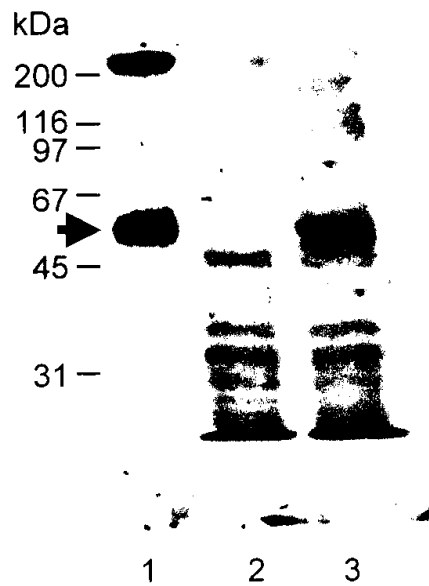


FIG. 13A

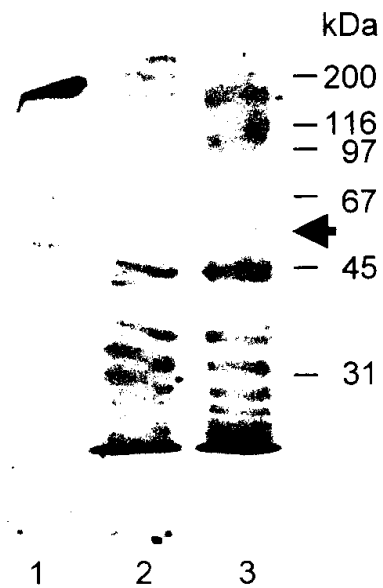


FIG. 13B

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FIG.14A

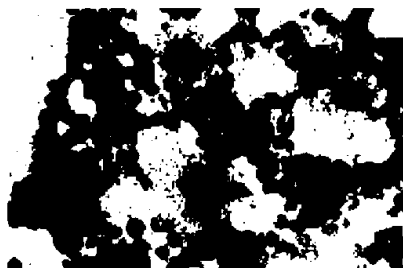


FIG.14B

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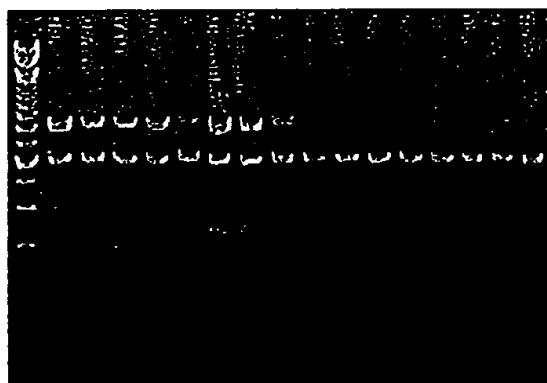


FIG.14C

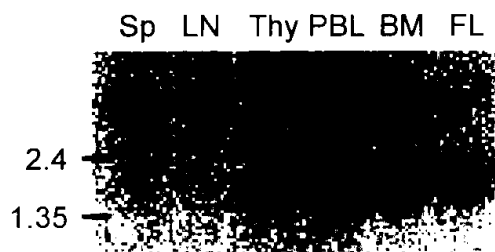


FIG.14D

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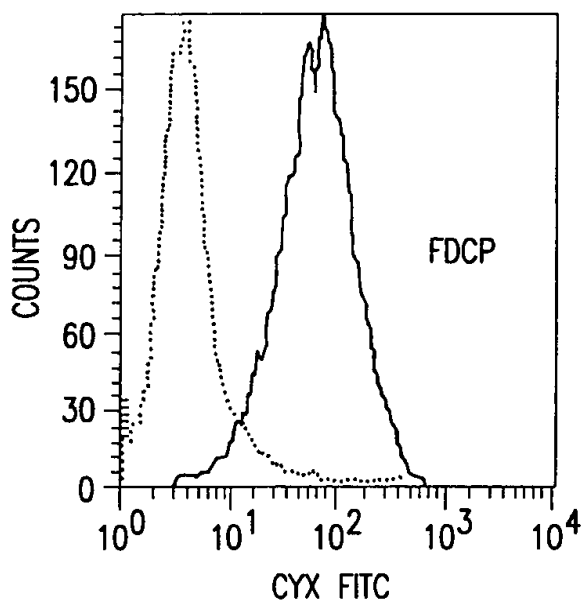


FIG.15A

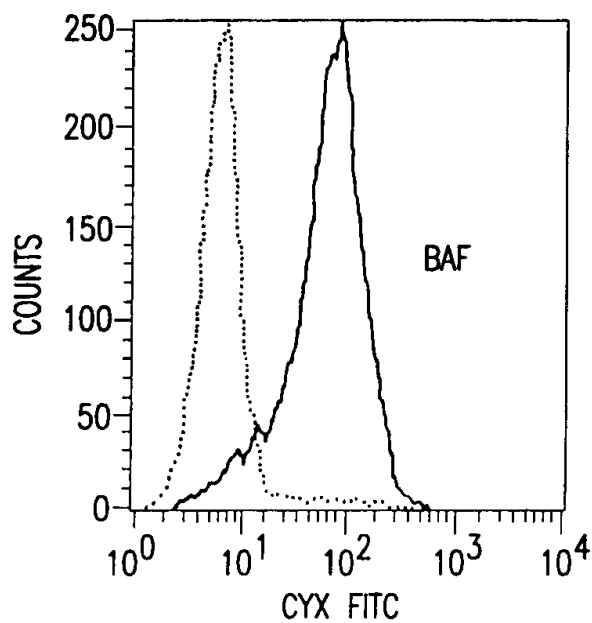


FIG.15B BEST AVAILABLE COPY



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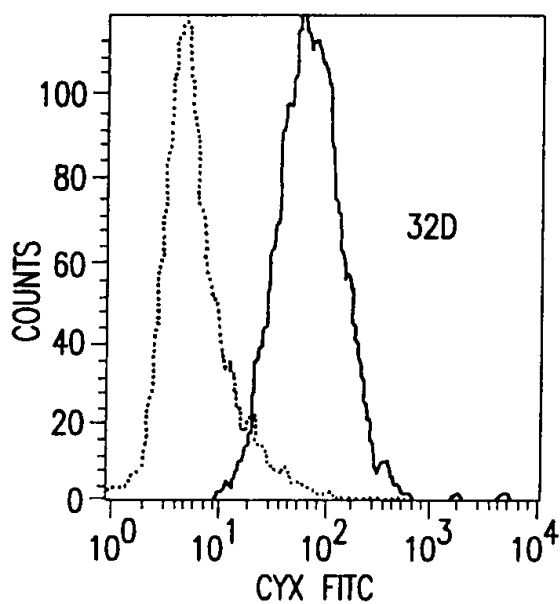


FIG.15C

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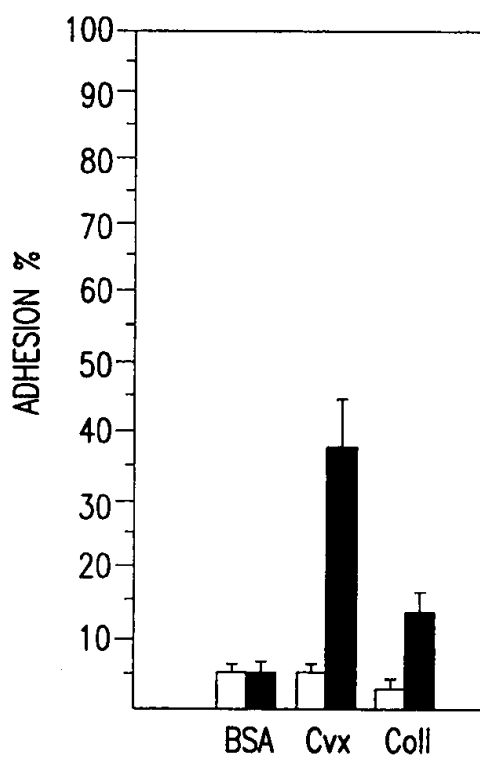


FIG.16A

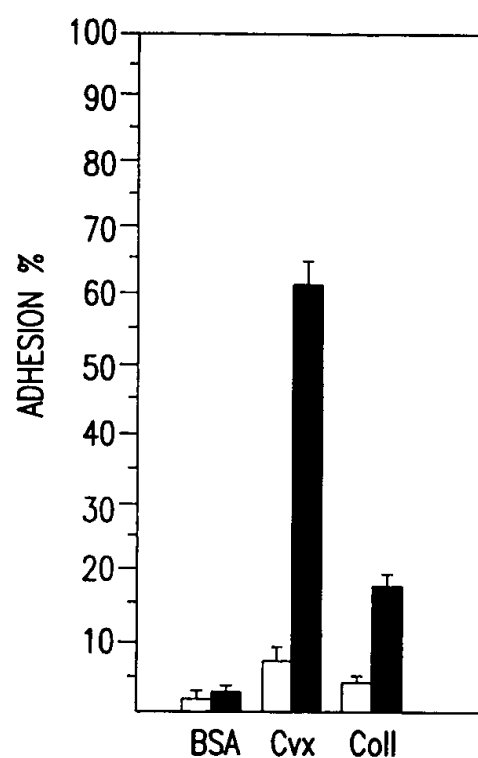


FIG.16B



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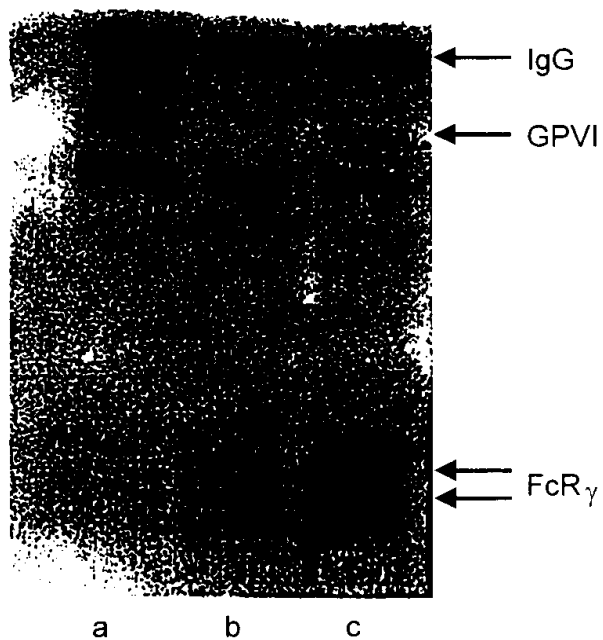
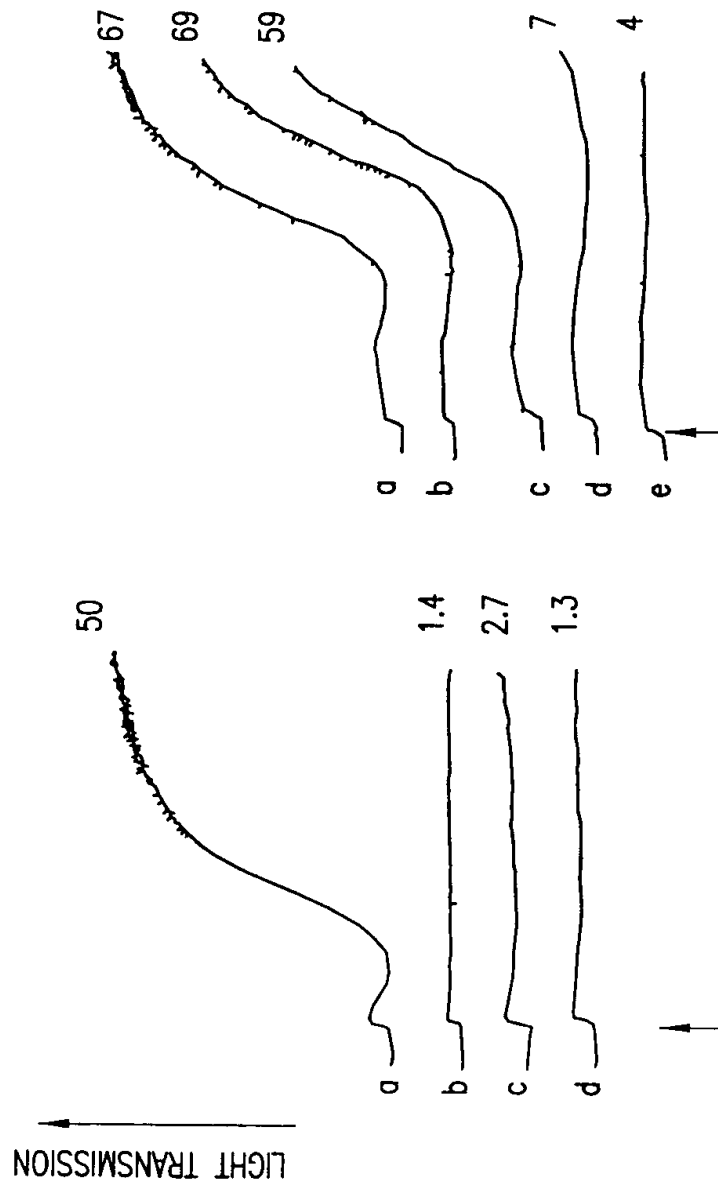


FIG.17





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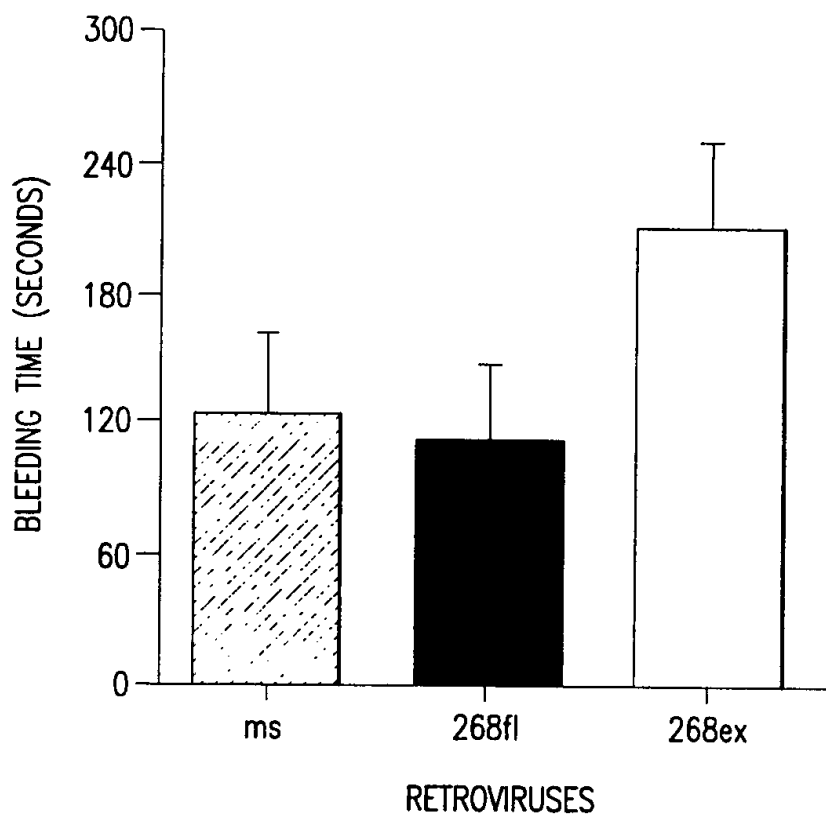


FIG.19



	M	S	P	S	P	T	A	L	F	C	L	11
GGAGTCGACCCACGCGTCCGCAGGGCTGAGGAACC	ATG	TCT	CCA	TCC	CCG	ACC	GCC	CTC	TTC	TGT	CTT	68
G	L	C	L	G	R	V	P	A	Q	S	G	31
GGG CTG TGT CTG GGG CGT GTG CCA GCG CAG AGT GGA CCG CTC CCC AAG CCC TCC CTC CAG												128
A	L	P	S	S	L	V	P	L	E	K	P	51
GCT CTG CCC AGC TCC CTG GTG CCC CTG GAG AAG CCA GTG ACC CTC CGG TGC CAG GGA CCT												188
P	G	V	D	L	Y	R	L	E	K	L	S	71
CCG GGC GTG GAC CTG TAC CGC CTG GAG AAG CTG AGT TCC AGC AGG TAC CAG GAT CAG GCA												248
V	L	F	I	P	A	M	K	R	S	L	A	91
GTC CTC TTC ATC CCG GCC ATG AAG AGA AGT CTG GCT GGA CGC TAC CGC TGC TCC TAC CAG												308
N	G	S	L	W	S	L	P	S	D	Q	L	111
AAC GGA AGC CTC TGG TCC CTG CCC AGC GAC CAG CTG GAG CTC GTT GCC ACG GGA GTT TTT												368
A	K	P	S	L	S	A	Q	P	G	P	A	131
GCC AAA CCC TCG CTC TCA GCC CAG CCC GGC CCG GCG GTG TCG TCA GGA GGG GAC GTA ACC												428
L	Q	C	Q	T	R	Y	G	F	D	Q	F	151
CTA CAG TGT CAG ACT CGG TAT GGC TTT GAC CAA TTT GCT CTG TAC AAG GAA GGG GAC CCT												488
A	P	Y	K	N	P	E	R	W	Y	R	A	171
GCG CCC TAC AAG AAT CCC GAG AGA TGG TAC CGG GCT AGT TTC CCC ATC ATC ACG GTG ACC												548
A	A	H	S	G	T	Y	R	C	Y	S	F	191
GCC GCC CAC AGC GGA ACC TAC CGA TGC TAC AGC TTC TCC AGC AGG GAC CCA TAC CTG TGG												608
S	A	P	S	D	P	L	E	L	V	V	T	211
TCG GCC CCC AGC GAC CCC CTG GAG CTT GTG GTC ACA GGA ACC TCT GTG ACC CCC AGC CGG												668
L	P	T	E	P	P	S	S	V	A	E	F	231
TTA CCA ACA GAA CCA CCT TCC TCG GTA GCA GAA TTC TCA GAA GCC ACC GCT GAA CTG ACC												728
V	S	F	T	N	K	V	F	T	T	E	T	251
GTC TCA TTC ACA AAC AAA GTC TTC ACA ACT GAG ACT TCT AGG AGT ATC ACC ACC AGT CCA												788
K	E	S	D	S	P	A	G	P	A	R	Q	271
AAG GAG TCA GAC TCT CCA GCT GGT CCT GCC CGC CAG TAC TAC ACC AAG GGC AAC CTG GTC												848
R	I	C	L	G	A	V	I	L	I	I	L	291
CGG ATA TGC CTC GGG GCT GTG ATC CTA ATA ATC CTG GCG GGG TTT CTG GCA GAG GAC TGG												908
H	S	R	R	K	R	L	R	H	R	G	R	311
CAC AGC CGG AGG AAG CGC CTG CGG CAC AGG GGC AGG GCT GTG CAG AGG CCG CTT CCG CCC												968

FIG.1A

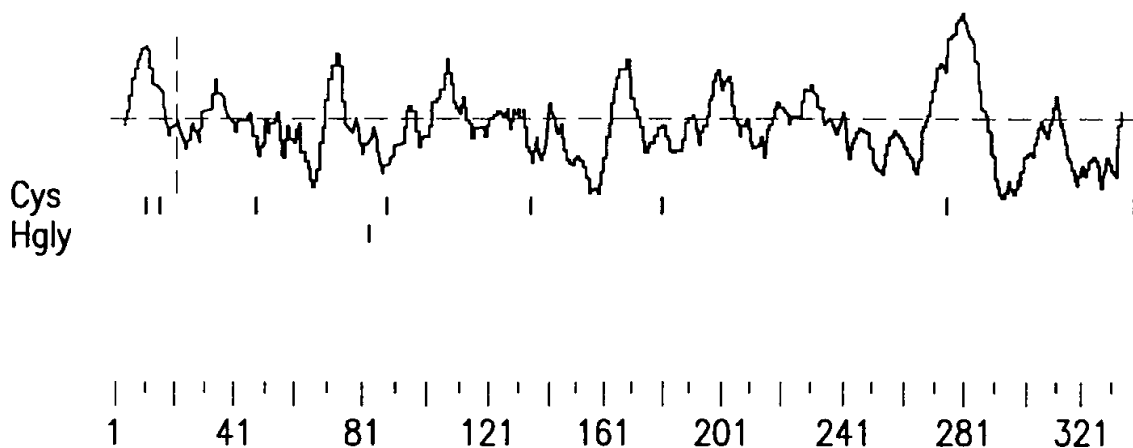


L P P L P Q T R K S H G G Q D G G R Q D 331  
CTG CCG CCC CTC CCG CAG ACC CGG AAA TCA CAC GGG GGT CAG GAT GGA GGC CGA CAG GAT 1028

V H S R G L C S \* 340  
GTT CAC AGC CGC GGG TTA TGT TCA TGA 1055

CCGCTGAACCCAGGCACGGTCGTATCCAAGGGAGGGATCATGGCATGGGAGGCGACTCAAAGACTGGCGTGTGTGGAG 1134  
CGTGGAAGCAGGAGGGCAGAGGCTACAGCTGTGGAACGAGGCCATGCTGCCTCCTCCTGGTGTTCATCAGGGAGCCG 1213  
TTCGGCCAGTGTCTGTCTGTCTGTCTGCCTCTCTGTCTGAGGGCACCTCCATTTGGGATGGAAGGAATCTGTGGAGAC 1292  
CCCATCCTCCTCCCTGCACACTGTGGATGACATGGTACCCTGGCTGGACCACATACTGGCCTCTTTCTTCAACCTCTCT 1371  
AATATGGGCTCCAGACGGATCTCTAAGGTTCCAGCTCTCAGGGTTGACTCTGTTCCATCCTCTGTGCAAAATCCTCCT 1450  
GTGCTTCCCTTTGGCCCTCTGTGCTCTTGTCTGGTTTTCCCAAGAACTCTCACCTCACTCCATCTCCCACTGCGGTC 1529  
TAACAAATCTCCTTTCTGTCTCTCAGAACGGGCTTGCAGGCAGTTTGGGTATGTCATTCATTTTCTTAGTGTAAGAACT 1608  
AGCACGTTGCCCGCTTCCCTTCACATTAGAAAACAAGATCAGCCTGTGCAACATGGTGAAACCTCATCTCTACCAACAA 1687  
AACAAAAAACACAAAAATTAGCCAGGTGTGGTGGTGCATCCCTATACTCCAGCAACTCGGGGGGCTGAGGTGGGAGA 1766  
ATGGCTTGAGCCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCTAGCTCGGGTGACGAAGCCTGA 1845  
CCTTGCTCAAAAAATACAGGGATGAATATGTCAATTACCCTGATTTGATCATAGCACGTTGTATACATGTACTGCAAT 1924  
ATTGCTGTCCACCCCATAAATATGTACAATTATGTATACATTTTTAAATCATAAAAATAAGATAATGAAAAAAAAAAAA 2003  
AAAAAAAAAAAAAGGGCGGGCCGCTAGACTAGTCTAGAGAACA 2047

FIG.1B



MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGVDLYRLE  
KLSSRYQDQAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQF  
GPAVSSGGDVTLCQTRYGFDQFALYKEGDPAPYKNPERWYRASFPITVTAAHSGTYRC  
YSFSSRDPLYLWSAPSDPLELVVTGTSVTPSRLPTEPPSSVAEFSEATAELTVSF TNKVF T  
TETSRSITTSPKESDSPAGPARQYYTKGNLVRICLGAVILIIILAGFLAEDWHSRRKRLRH  
RGRAVQRPLPPLPPLPQTRKSHGGQDGGQDVHSRGLCS

FIG.2

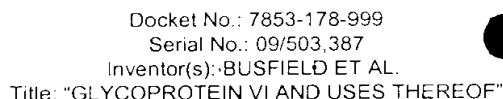


FIG. 3A



```
560      570      580      590      600      610      620
inputs  GAACCCAGCCACAGGTGGAGGTTACATGCTATTACTATTATATGAACACCCCCAGGTGTGGTCCCAC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      GAATCCCGA-----GAGATGGTAC-CGGGCTAGT-----TT-----CCCAT-----CAT
      470      480      490      500

630      640      650      660      670      680      690
inputs  CCCAGTGACCCCCTGGAGATTCTGCCCTCAGGCGTGTCTAGGAAGCCCTCCCTCCTGACCCTGCAGGGCC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      CACGGTGACCGCC-----GCCACAG-----
      510      520

700      710      720      730      740      750      760
inputs  CTGTCCTGGCCCCTGGGCAGAGCCTGACCCTCCAGTGTGGCTCTGATGTCGGCTACGACAGATTTGTTCT
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      -----CGGAACCTA-----CCGATG-----CTACAGC-----TTCT
      530      540      550

770      780      790      800      810      820      830
inputs  GTATAAGGAGGGGGAACGTGACTTCCTCCAGCGCCCTGGCCAGCAGCCCCAGGCTGGGCTCTCCAGGCC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      -----CCAGCAG-----

840      850      860      870      880      890      900
inputs  AACTTCACCCTGGGCCCTGTGAGCCCCTCCACGGGGGCCAGTACAGGTGCTATGGTGCACACAACCTCT
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      -----GGACCCA-----TACCT--
      560

910      920      930      940      950      960      970
inputs  CCTCCGAGTGGTCGGCCCCCAGCGACCCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCGTCTC
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      -----GTGGTCGGCCCCCAGCGACCCCCTGGA-----GCT-----TGTG-----
      570      580      590      600

980      990      1000      1010      1020      1030      1040
inputs  CCTGTCAGCACAGCCGGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTCAGTCATGGTGG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      ---GTCA-----CAGGAACCTCTGTGACC-----CCCAGC-----CGGT-----
      610      620      630

1050      1060      1070      1080      1090      1100      1110
inputs  CAGTTTGACACTTTCCTTCTGACCAAAGAAGGGGCAGCCCATCCCCACTGCGTCTGAGATCAATGTACG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      -----TACCAACAGAAC-----CA-CCTTCC-----TCG
      640      650

1120      1130      1140      1150      1160      1170      1180
inputs  GAGCTCATAAGTACCAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCACGCGGGGACCTACAGGTG
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      GTA-----GCAGAAATTCTC-----AGAAGCCAC-----CGCTGA-----ACTG--A
      660      670      680      690
```

FIG.3B



```

1190      1200      1210      1220      1230      1240      1250
inputs  CTACGGCTCATACAGCTCCAACCCACCTGCTGTCTTTCCCAGTGAGCCCTGGAACCTCATGGTCTCA
      :   :   :   :   :   :   :   :   :   :   :   :   :   :   :   :   :
      C--CGTCTCATTCA--CAAAC-----AAAGTCTT--CACAA-----CTGAGACT--TCT--
      700      710      720      730

1260      1270      1280      1290      1300      1310      1320
inputs  GGAACTCTGGAGGCTCCAGCCTCCACCCACAGGGCCGCCCTCCACACCTGGTCTGGGAAGATACCTGG
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      -----AGGAGTATC--ACCACCAGTCCAAAGGA--GTCAGACTCTCCAG--CTGG-----
      740      750      760      770

1330      1340      1350      1360      1370      1380      1390
inputs  AGGTTTTGATTGGGGTCTCGGTGGCCTTCGTCCTGCTGCTCTTCTCCTCCTCTTCTCCTCCTCCGACG
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      -----TCCTGC-----CCGCCAGTA---CTACACCAAGG
      780      790      800

1400      1410      1420      1430      1440      1450      1460
inputs  TCAGCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCTGCAGGGGCTGCG
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      GCAAC-----CTGGTC-----CGGATAT--GCCTC-----GGGGCTG--
      810      820      830

1470      1480      1490      1500      1510      1520      1530
inputs  GAGACAGAGCCCAAGGACAGGGGCTGCTGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGAAGAAAACC
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      -----TGATCCTAATAA-----TCCTG--GCGGGGTTTCTG-----GCAGA--GGACTGG-----C
      840      850      860      870

1540      1550      1560      1570      1580      1590      1600
inputs  TCTATGCTGCCGTGAAGGACACACAGTCTGAGG-ACAGGGTGGAGCTGGACAGT-CAGAGCCCACACGAT
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      AC-----AGCCG--GAGGAAGCGC--CTGCGGCACAGGG--GCAGGGCTGTGCAGAGGCCGCT----
      880      890      900      910      920

1610      1620      1630      1640      1650      1660      1670
inputs  GAAGACCCCCAGGCAGTGACGTATGCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCCTCTCCTC
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      ----TCC-----GCCCTG-----CCGC----C
      930      940

1680      1690      1700      1710      1720      1730      1740
inputs  CCTCTCACTGTCTGGGGAATTCTTGACACAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACAC
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      CCTCC-CGCAGAC-----CCGGAATCA----CA--CGGG-----GGTCAGG--ATGGA---
      950      960      970      980

1750      1760      1770      1780      1790      1800      1810
inputs  TGAGGCTGCTGCATCTGAAGCCTCCAGGATGTGACCTACGCCAGCTGCACAGCTTGACCTTAGACGG
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      ---GGC-----CGAC-----AGGATGTT-----CACAGC-----CG-
      990      1000

1820      1830      1840      1850      1860      1870      1880
inputs  AAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGG
      :   :   :   :   :   :   :   :   :   :   :   :   :   :
      -----CGGGTTATG-----TTCA-----
      1010

1890
inputs  CCATCCAC
      -----

```

FIG.3C



FIG. 4

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```
*->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
      + vtL+C+          + v y + k ++          r++ +
hT268 41  EKPVTLCQGP-----PGVDLY-RLEKISSS-----RYQDQ-- 70

      anlsegrfsissltLtissvekeDsGtYtCvv<.*
              ++L i    +++ +G Y+C
hT268 71  -----AVLFIPAMKRSLAGRYRCY      90
```

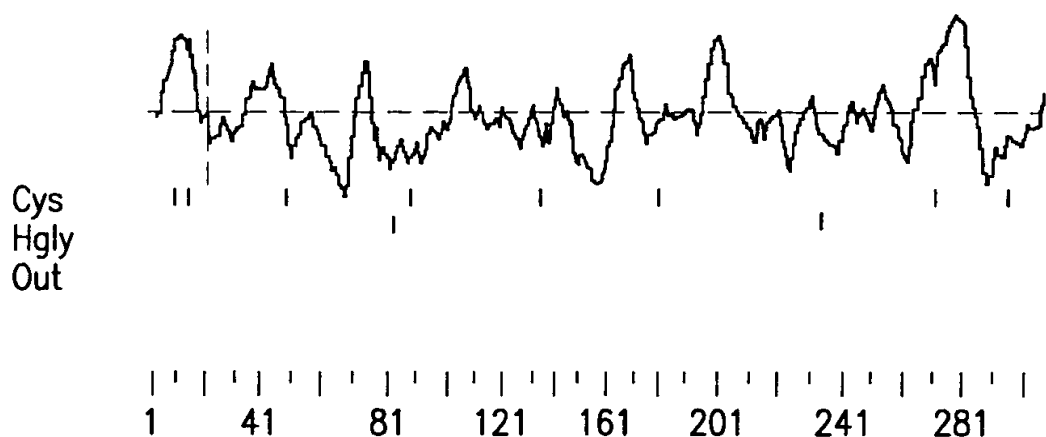
FIG.5A

```
*->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
      G++vtL+C+++      + ++ y k+g++ +      y+++
hT268 127 GGDVTLQCQTR---YGFDQFALY-KEGDpAP-----YKNPERWYR-- 162

      anlsegrfsissltLtissvekeDsGtYtCvv<.*
              +++++i+++v++ sGtY+C
hT268 163 -----ASFPIITVTAHSGTYRCYS      182
```

FIG.5B

FIG. 6



MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAQPSSLVPLGQSVILRCQGPPDVDLYRL  
EKLKPEKYEDQDFLF IPTMERSNAGRYRCSYQNGSHWSLPSDQLELIATGVYAKPSLSAH  
PSSAVPQGRDVTCLKCQSPYSFDEFVLYKEGDTGPYKRPEKWYRANFPIITVTAHSGTYR  
CYSFSSSSPYLWSAPSDPLVLVTGLSATPSQVPTEESFPVTESSRRPSILPTNKISTTE  
KPMNITASPEGLSPPIGFAHQHYAKGNLVRICLGATIIIIILLGLLAEDWHSRKKCLQHRM  
RALQRPLPPLPLA

FIG.7

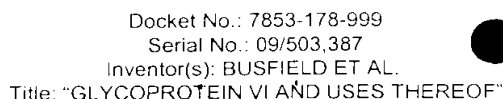


FIG. 8A

FIG. 8B



```
1120      1130      1140      1150      1160      1170      1180
inputs  GCTCATAAGTACCAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCCACGCGGGGACCTACAGGTGCT
:      :.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
G--AAATGGTACCGGGCCAATTTCCCCATCATCACAGTGAAGTGTGCTCACAGTGGGACGTACCGGTGTT
      480      490      500      510      520      530      540

1190      1200      1210      1220      1230      1240      1250
inputs  ACGGCTCATACAGCTCCAACCCCCACCTGCTGTCTTTCCCCAGTGAGCCCCTGGAACCTCATGGTCTCAGG
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
ACAGCTTCTCCAGCTCATCTCCATACCTGTGGTCAGCCCCGAGTGACCCTCTAGTGCTTGTGGTTACTGG
      550      560      570      580      590      600      610

1260      1270      1280      1290      1300      1310      1320
inputs  ACACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCCACACCTGGTCTGGGAAGATACCTGGAG
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
ACTCTCTG-----CCA--CTCCCAGCC--AGGT--ACCCAC-----GGA-AGAATCATTTCTG---
      620      630      640      650      660

1330      1340      1350      1360      1370      1380      1390
inputs  GTTTTGATTGGGGTCTCGGTGGCCTTCGTCCTGTGCTCTTCTCCTCCTCTTCTCCTCCTCCGACGTC
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
----TGA-----CAGAATCCT---CCAGGAGACCTTCCA-----TCTTAC---CCACAAACAAA
      670      680      690      700

1400      1410      1420      1430      1440      1450      1460
inputs  AGCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCCTGCAGGGGCTGCGGA
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
A---TATCTACAA---CTGAA---AAGCCTATGAATATC--ACTGCCT-C-TCCAG-AGGGGCTG----
      710      720      730      740      750

1470      1480      1490      1500      1510      1520      1530
inputs  GACAGAGCCCCAAGGACAGGGGCTGCTGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGAAGAAAACCTC
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
-----AGCCCT-----CC-----AATTGGTTTGTCTCATCAGCA-----C
      760      770      780

1540      1550      1560      1570      1580      1590      1600
inputs  TATGCTGCCGTGAAGGACACACAGTCTGAGGACAGGGTGGAGCTGGACAGTCAGAGCCCACACGATGAAG
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
TATGC-----CAAGGGGAATCTGGTC-----CGGATATG
      790      800      810

1610      1620      1630      1640      1650      1660      1670
inputs  ACCCCCAGGCAGTGACGTATGCCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCCTCTCCTCCCTC
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
---CCTTGG-----TGCCACGAT-----TATAATAATTTTGT-----
      820      830      840

1680      1690      1700      1710      1720      1730      1740
inputs  CTCACTGTCTGGGGAATTCTGGACACAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACACTGAG
:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
-----TGGGGCTT--CTAG--CAGAGGATTGGC-----ACAGTCGGAAGAA-----AT
      850      860      870      880
```

FIG.8C



```

      1750      1760      1770      1780      1790      1800      1810
inputs GCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCCCAGCTGCACAGCTTGACCCTTAGACGGAAGG
      :: :::::::::: :::::::::: :::: :::
      GC--CTGCAACA-----CAGGATGAGA-----GCTTTGC-----AAAGG
              890              900              910

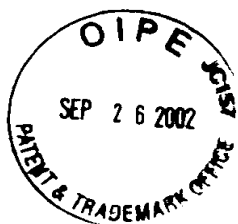
      1820      1830      1840      1850      1860      1870      1880
inputs CAACTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGGCCAT
      : :::: ::::: ::::: ::::: :::::
      CCACTA-----CCACC-----CCTCC-----CACTGGCC--
              920              930

      1890
inputs CCAC
```

FIG. 8D



FIG. 9



```
*->GesvtLtCsvgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
      G+sv L+C+          ++v y + k ++          +++e +
mT268  42  GQSVILRCQGP-----PDVDLY-RLEK1KP-----EKYEDQ-- 71

      anlsegrfsissltLtissvekeDsGtYtCvv<-*
                        L i + e+++G Y+C
mT268  72  -----DFLFIPTMERSNAGRYRCY      91
```

FIG.10A

```
*->GesvtLtCsvgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
      G +vtL C++          ++ y k+g++ +          Y+r+e +
mT268  128 GRDVTCLKCQSP---YSFDEFVLY-KEGDtGP-----YKRPEKW-Y 162

      anlsegrfsissltLtissvekeDsGtYtCvv<-*
      +                ++i++v++ sGtY+C
mT268  163 RA-----NFPIITVTAHSGTYRCYS      183
```

FIG.10B



```

      10      20      30      40      50      60
inputs MSPSPTALFCLGLCLGRV-PAQSGPLPKPSLQALPSSLVPLEKPVTLRCQPPGVDLRYLEKLSSSRYQD
      .....
      MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAPSSLVPLGQSVILRCQPPDVLRYLEKLPKEYED
      10      20      30      40      50      60      70
70      80      90      100      110      120      130
inputs QAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQPGPAVSSGGDVTLCQTRYG
      .....
      QDFLIPTMERSNAGRYRCSYQNGSHWSLPSDQLELIATGVYAKPSLSAHPSSAVPQGRDVTLCQSPYS
      80      90      100      110      120      130      140
140      150      160      170      180      190      200
inputs FDQFALYKEGDPAPYKNPERWYRASFPITVTAAMSGTYRCYSFSSRDPLYWSAPSDPLELVVTGTSVTP
      .....
      FDEFVLYKEGDTGPYKRPEKWYRANFPITVTAAHSGTYRCYSFSSSPYLSAPSDPLVLVVTGLSATP
      150      160      170      180      190      200      210
210      220      230      240      250      260      270 ↓
inputs SRLPTEPPSSVAEFSEATAELTVSFTNKVFTTETSRSTITSPKESDSPAGPARQYYTKGNLVRICLGAVI
      .....
      SQVPTEESFPVTESSRRPSILP---TNKISTTEKPMNITASPEGLSPPIGFAHQHYAKGNLVRICLGATI
      220      230      240      250      260      270

      280      290      300      310      320      330
inputs LIILAGFLAEDWHSRRKRLRHRGRAVQRPLPPLPPLPQTRKSHGGQDGGQRQDVHSRGLCS
      .....
      IIIILLGFLAEDWHSRKKCLQHRMRALQRPLPPLP-LA-----
      280      290      300      310
```

FIG.11